

Appl. No. : **Unknown**
Filed : **Herewith**

AMENDMENTS TO THE CLAIMS

1. (ORIGINAL) A method for calibrating a non-invasive blood constituent monitor connected to a traditional measurement system via a data link, the method comprising:

withdrawing an amount of whole blood from a patient;

analyzing a blood constituent in the amount of whole blood with the traditional measurement system and generating a traditional monitor output representing a property of the blood constituent;

placing a thermal gradient inducing element of the non-invasive blood constituent monitor in contact with the skin of the patient;

analyzing the blood constituent in blood within the patient by detecting thermal radiation at selected wavelengths and generating a non-invasive monitor output representing the property of the blood constituent;

comparing the traditional monitor output and the non-invasive monitor output to estimate an error; and

correcting the non-invasive monitor output based on said error.

2-31. (CANCELLED)